Mitschele, Becky

From: Peter Hughes Peter Hughes Peter Hug

Sent: Tuesday, June 17, 2014 12:25 PM

To: Mitschele, Becky
Subject: RE: Hawaii Dairy Farms

Follow Up Flag: Follow up Flag Status: Flagged

Becky,

The Hawaii Dairy Farm team is working on the resubmitting the comments in regards to the Waste Management Plan and CNMP for review by DOH and Hawaii NRCS. I rely on Chapter 2 of the Technical Manual for CAFO's all of the time for our work in PA and TX, but I want to miss step as we are getting closer to finalizing the permit. I understand that there is a very rigorous process for designating an AFO as a CAFO beyond animal numbers especially if the operation is determined to be a significant contributor of pollutants to waters of the U.S. In this case there are no pollutants allowed to discharge into waters of the U.S. through a man-made ditch, flushing system, or other similar man-made device; or pollutants being discharged directly into waters of the U.S. that originate outside and pas over, across, or through the facility or otherwise come into direct contact with animals confined in the operation. 40 CFR §122.23(b)(6)(ii)(A),(B).

If we are just looking at strict animal numbers and being deemed a AFO and not a CAFO here is the scenario:

Phase I

699 pasture based mature milk cows(lactating and dry), on 528 acres. They would be considered "confined" because they spend on average one hour in the milk parlor on a daily basis.

174 calves on farm for 3 months. They would be "confined" in a housing unit for two weeks and then would be on pasture 100% of the time until they reached 3 months in age. After three months they would be sent to a contract grower until they became replacement stock for the original herd.

All manure within the holding area and milking parlor will be sent to a manure storage system that has been designed to NRCS practice standards and will be able to contain the 24 hour 25 year storm event.

The operation is covered by an up to date Comprehensive Nutrient Management Plan for all acres associated with the pasture based system in accordance with the applicable NRCS practice standards.

Phase II

Will definitely need a CAFO permit prior to any increase in animal numbers from Phase I.

I appreciate your opinion. Thanks

Peter

From: Mitschele, Becky [mailto:Mitschele.Becky@epa.gov]

Sent: Tuesday, June 10, 2014 7:44 PM

To: Peter Hughes

Subject: RE: Hawaii Dairy Farms

Aloha Peter!

Thanks for reaching out. I too find that speaking to all relevant parties early in the process tends to work out best for everyone.

Hawaii is authorized to implement the NPDES permitting program, including CAFOs, but we do provide assistance and guidance to the states as they draft new permits. I don't think that Hawaii has any permitted CAFOs to date.

At this point, we most likely will work to support DOH and provide technical assistance. I will touch base with Sina.

Thanks for keeping me in the loop.

Becky Mitschele

From: Peter Hughes [mailto:PeterH@redbarnag.com]

Sent: Tuesday, June 10, 2014 2:08 PM

To: Mitschele, Becky

Subject: RE: Hawaii Dairy Farms

Becky,

I believe that Hawaii Dairy Farms has come to the conclusion that a CAFO permit is the right permitting path to follow. Sina from DOH is currently on vacation and will not be returning until the 18th of June. Would you be assisting DOH with the review of this permit? I'm not sure if Hawaii differentiates CAFO's under the General Permit or if they will require coverage under an Individual Permit. Have you been involved with other CAFO permits in Hawaii, come to think of it are there any other CAFO's in Hawaii?

Currently we have a Waste Management Plan and CNMP in review by DOH and NRCS. That plan is for phase 1, 699 dairy cows. Even though this is a pasture based system we know that confinement counts for time in the milking parlor. Phase II is for 1800 – 2000 milk cows at full build out. The two stage manure system is designed to satisfy Phase II but will be constructed in Phase I. I thought it would be most prudent to get the operation up and going before they just started flying a bunch of cows over from the mainland. Would it be helpful to see information about the site? I have found that starting off on the right foot with the regulatory community is the best way of doing business. Hope all is well and I will talk to you soon.

Peter

From: Mitschele, Becky [mailto:Mitschele.Becky@epa.gov]

Sent: Wednesday, June 04, 2014 7:40 PM

To: Peter Hughes

Subject: RE: Hawaii Dairy Farms

Hi Peter,

Thanks for following up. With regards the definition of AFO and a CAFO, EPA explains it best in Chapter 2 of the Technical Manual for CAFOs.

Related to your question below, I would need to know more information about the 1,000 head of other cows. Unfortunately, it is not as straightforward as I would like it to be. As explained in the guidance:

"If an animal is confined for any portion of a day, it is considered to be on the facility for a full day. For example, dairy cows that are brought in from pasture for less than an hour to be milked are counted as being confined (i.e., on the lot or facility) for the day."

"In addition, the same animals are not required to remain on the lot for 45 days or more for the operation to be defined as an AFO. Rather, the first part of the regulatory definition is met if some animals are fed or maintained on the lot or facility for 45 days out of any 12-month period. The 45 days do not have to be consecutive, and the 12-month period does not have to correspond to the calendar year."

EPA also provides examples. I am specifically thinking about example D, E, and F. Example D is an AFO/CAFO (and E and F are not) and the text from the guidance is listed below:

A beef cattle operation maintains the herd on pastures from March 15 through November 15.

From November 16 through March 14, the herd is moved to a fenced field where crops were grown during the spring and summer. During the winter, while the animals are confined to the field, the animals eat all the post-harvest residue and other vegetation that remained in the field after the crops were harvested. Additional feed is also brought to the

field to sustain the herd throughout the winter.

Answer: The operation meets the AFO definition. The animals are confined and fed for more than 45 days in a 12-month period (November through March). Although the confinement area is used for crop production during times when the animals are grazing on pasture, the vegetation is not sustained during the period when the animals are confined there.

See http://www.epa.gov/npdes/pubs/cafo permitmanual chapter2.pdf. Since CAFO operations (and EPA's regulations) can be complex, let me know if you have additional questions.

Thanks, Becky Mitschele

On detail to R9 NPDES Permits Office (415) 972 - 3492

U.S. EPA, Office of Wastewater Management (202) 564 - 6418

From: Peter Hughes [mailto:PeterH@redbarnag.com]

Sent: Tuesday, June 03, 2014 1:27 PM

To: Mitschele, Becky

Subject: Re: Hawaii Dairy Farms

Becky,

It has been some time since I last sent you an e-mail with regards to the proposed "Hawaii Dairy Farm". I have been on the farm the last 10 days conducting a full topographic survey of the entire site. We want to make sure we have all of the existing features mapped prior to further planning.

The team has compiled a Waste Management Plan and sent it to DOH for review, Sina has been great to work with. Included in this WMP is the Comprehensive Nutrient Management that has been written for less than 700 mature milk cows for phase I of the project. We have been working with Adam Reed of HI NRCS for process flow and standards and specifications.

The plan is to get the facility up and running before applying for a CAFO permit, not sure if we will ever get to those numbers or not, that is still a question for the farm management team.

The way that I interpret the CAFO regulations is that the site could have less than 700 milk cows <u>and</u> under 1000 head of livestock (heifers and calves) and still be considered an Animal Feeding Operation (AFO). This being under the presumption that manure would not have any direct access through a manmade conveyance or ditch to the stream. Am I thinking about this correctly? Thanks and maybe we could also catch up on a conference call when it works in your schedule.

Peter

Please forgive the typos - sent from my iPhone

On Mar 26, 2014, at 2:55 PM, "Mitschele, Becky" < Mitschele.Becky@epa.gov> wrote:

Ok. I will work on Friday to set something up as I am working from an alternative work location today and at an offsite meeting tomorrow.

Sorry to miss the meeting/trip tomorrow. Region 3 sponsored events are always great! There is a lot of great partners in that Region.

Thx,

Becky

From: Peter Hughes < PeterH@redbarnag.com > Sent: Wednesday, March 26, 2014 3:39 PM

To: Mitschele, Becky

Subject: RE: Hawaii Dairy Farms

Becky,

Thanks for the quick reply, I have all day Wednesday April 2nd open in my schedule. I understand the challenges associated with the time difference and can accommodate my schedule accordingly (I don't mind speaking any time after 5:00 EST). I can supply a call in number if we need to conference others in, you decide the time that works best for your schedule. Too bad we won't be able to catch up in person tomorrow, it always amazes me what a small world agriculture can be! Thanks again and I look forward to our call next Wednesday.

Peter

From: Mitschele, Becky [mailto:Mitschele.Becky@epa.gov] Sent: Wednesday, March 26, 2014 3:10 PM To: Peter Hughes Subject: RE: Hawaii Dairy Farms
Hi Peter,
Thanks for reaching out to me. I have been in contact with Sina in the past about the CAFO regulations. I am not attending the Region 3 hosted CAFO training (but a few of my coworkers are).
Is there a time next week (Wednes/Thursday) that works for you? It also might make sense to include Sina on the call since the state of Hawaii is the permitting authority.
Thanks,
Becky Mitschele

Mitschele, Becky

From: Peter Hughes < PeterH@redbarnag.com>

Sent: Tuesday, June 10, 2014 5:40 PM

To: Mitschele, Becky
Subject: Re: Hawaii Dairy Farms

Ah yeah. Game on just got a response below.

Please forgive the typos - sent from my iPhone

On Jun 10, 2014, at 8:28 PM, "Mitschele, Becky" < Mitschele.Becky@epa.gov> wrote:

The joys of the internet **J**

I am from Missouri. I have moved around, but HI was my favorite place to call home. Talk to you more later and as always, let me know if you have additional questions. Becky

From: Peter Hughes [mailto:PeterH@redbarnag.com]

Sent: Tuesday, June 10, 2014 5:12 PM

To: Mitschele, BeckyT

Subject: Re: Hawaii Dairy Farms

Becky,

Thanks for your always quick response, much appreciated. I had a chance last week to visit the site on Kauai as we conducted a topographic site survey of the entire 600 acres. I have stopped trying to correct people when they ask me how my "vacation" was.... The joke around the office is "you are never this excited to permit a CAFO in Iowa." Yes this is true, but a project of this size and scope is very important that we get it right the first time.

Of course we are very cognizant about the Hyatt right next door who is not in support of the project, as well as others who own property, but are not from the island. I found that those who are Kauai natives and know the past use of the farm are very supportive of the prospective dairy. I felt that it was important to understand the culture of the project before jumping in with both feet.

Did you grow up in Hawaii or were you just educated there? I think this project will be right up your ally, since we are truly trying to set up a sustainable pasture based dairy system.... Yeah can you tell I'm on LinkedIn?

I'll let you know as soon as the team decides how best to move forward. Talk to you soon. Peter

From: , "Mitschele.Becky@epa.gov" < Mitschele.Becky@epa.gov>

Date: Tuesday, June 10, 2014 at 7:43 PM **To:** Peter Hughes peterh@redbarnag.com

Subject: RE: Hawaii Dairy Farms

Aloha Peter!

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